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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/577,223	05/23/2000	John C. Tang	SUN-P4953-RSH	4212
22835	7590	09/22/2004	EXAMINER	
PARK, VAUGHAN & FLEMING LLP			ZHEN, LI B	
508 SECOND STREET			ART UNIT	
SUITE 201			PAPER NUMBER	
DAVIS, CA 95616			2126	

DATE MAILED: 09/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 09/577,223	Applicant(s) TANG ET AL.	
	Examiner Li B. Zhen	Art Unit 2126	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 25 June 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-36 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-36 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION**

1. Claims 1 – 36 are pending in current application.

***Claim Rejections - 35 USC § 101***

2. Claims 1 – 12 are rejected under 35 U.S.C. 101 because they are directed to non-statutory subject matter.
3. Claims 1 – 12 are directed to method steps, which can be practiced mentally in conjunction with pen and paper, therefore they are directed to non-statutory subject matter. Specifically, as claimed, it is uncertain what performs each of the claimed method steps. Moreover, each of the claimed steps, inter alia, receiving, passing, displaying and allowing, can be practiced mentally in conjunctions with pen and paper. The claimed steps do not define a machine or computer implemented process [see MPEP 2106]. Therefore, the claimed invention is directed to non-statutory subject matter. (The examiner suggests applicant to change “method” to “computer implemented method” in the preamble to overcome the outstanding 35 U.S.C. 101 rejection).

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. **Claims 1 – 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,223,212 to Batty [cited in previous office action] in view of U.S. Patent No. 6,189,032 to Susaki.**

6. As to claim 25, Batty [column 3, line 50 – column 4, line 10; column 4, lines 30 – 67; column 18, line 56 – column 19, line 25; column 25, line 59 – column 26, line 13; column 26, lines 13 – 46] teaches the invention substantially as claimed including a shared window [application sharing, AS, window] for entering commands into a local computer system [computer hosting a shared application, for example computer 110 for hosted application A, Fig. 1], wherein the shared window can be shared with a remote user who can input data [multipoint application sharing, MAS, system that resides at each computer system enables a user at each computer system to share one or more application programs with each user at each other computer system] into the shared window from a remote computer system [computer sharing the window of a hosted application, for example computer 120 for hosted application A, Fig. 1] subject to access control [AS protocol provides a set of core control mechanisms whereby ASCEs can implement a range of policies], the apparatus comprising:

a receiving mechanism [an intercept DD layer 638, Fig. 6] that is configured to receive a command [input data] from the remote user [user of the shadow computer] on the remote computer system [an intercept DD layer 638 to intercept calls from the standard DD layer 640 to the operating system...when a user of the shadow computer

Art Unit: 2126

system inputs data for the shared application program, the standard device driver for the input device is executed and calls the intercept DD layer];

wherein the command is directed toward the local computer system [host computer system] in order to operate the local computer system [a user of the shadow computer system inputs data for the shared application program... forwards those packeted input data to the controlling task 612 of the host computer system, Fig. 6];

a filtering mechanism [AS protocol also defines an additional mediated set of control mechanisms] that is configured to pass the command through a filtering process [managing the right to provide input to hosted and/or shadow windows], and to execute the command on the local computer system if the command passes the filtering process [AS protocol provides a set of core control mechanisms whereby ASCEs can implement a range of policies...AS protocol also defines an additional mediated set of control mechanisms, which build upon the core control mechanisms...the core AS control protocol is based on managing the right to provide input to hosted and/or shadow windows]; and

a display mechanism that is configured to display the command on the shared window on the local computer system [transmits the messages to the host window] so that a local user can view the command [controlling task 612 retrieves the input data from the shadow queue 622 forwards the input data to the operating system...then generates messages corresponding to the input data and transmits the messages to the host window... shared application program treats input data entered on the shadow computer system as if it were generated locally at the host computer system, Fig. 6];

wherein the display mechanism is configured to allow the command to be displayed on a remote copy of the shared window [shadow window] on the remote computer system, so that the remote user can view the command [for each hosted window, there is a corresponding shadow window that is displayed by each ASCE that is viewing... shadow windows are displayed by the ASCE and correspond to a hosted window on the host ASCE...all updates to the host windows are reflected in both the shadow bitmap and the shadow window].

7. Although Batty teaches granting permission to execute commands on the local computer system [allow requesting ASCE to take control] based on an approval received from a user [such as interacting with the local end-user] of the local computer system [When the local value is Confirm, the ASCE utilizes a purely local mechanism (such as interacting with the local end-user) to determine whether to allow the requesting ASCE to take control and then responds with either a Confirm Take Response or Deny Take Response...to the requesting ASCE; col. 22, line 63 – col. 23, line 25], Batty does not teach allowing a user of the local computer system to approve a command received from the remote user at run time.

However, Susaki teaches controlling access to a resource [col. 3, lines 43 – 60] and allowing a user of the local computer system to approve a command received from the remote user at run time [available for the users of the user authority level "1" when "the approval by a user having the user identifier `taro` is acquired"; col. 8, lines 1 – 9], allowing the command [service request] to execute if the user approves the command [If the process control rule indicates that an approval by a user is required, service

approval request processor 206 transmits an approval request for requesting a judgment to approve or not approve that the user of client terminal 1....If the client terminal 1 to which the approval request is transmitted sent back an approval information indicating approval, the service approval request processor 206...instructs service supply processor 207 to provide a service determined by the concerned service identifier to a client terminal 1 specified by the identifier of the concerned client terminal 1; col. 10, lines 1 – 36] and not allowing the command to execute otherwise [if the client terminal 1 to which the approval request is transmitted returned approval information indicating not to approve, service approval request processor 206 informs of the service supply being disapproved to a client terminal 1 specified by the identifier of client terminal 1 transmitted with the concerned process control rule from service control processor 205; col. 10, lines 1 – 37].

8. It would have been obvious to a person of ordinary skill in the art at the time of the invention to apply the teaching of allowing a user of the local computer system to approve a command received from the remote user at run time as taught by Susaki to the invention of Batty because this provides a client-server system, a server, and a client terminal, whereby, even if an approval and consent are required in case a user of the client terminal receives a service that the server provides, the access to the foregoing service by the concerned user can properly be controlled [col. 2, lines 45 – 52 of Susaki].



9. As to claim 26, Batty teaches [column 23, lines 1 – 20] if the shared window is in an approval mode [value is Confirm], the filtering mechanism is configured to allow the local user of the local computer system to approve the command [interacting with the local end-user to determine whether to allow the requesting ASCE to take control], and to allow the command to pass the filtering process if the local user approves the command [when the negotiated value is Confirm, one or more peer ASCEs require that the taking of control requires confirmation by those peer ASCEs and the ASCE sends a Take Control Request MediatedControlPDU to all ASCEs... when the local value is Confirm, the ASCE utilizes a purely local mechanism, such as interacting with the local end-user, to determine whether to allow the requesting ASCE to take control].

10. As to claim 27, Batty teaches [column 23, lines 1 – 20] if the shared window is in a view-only mode [value is Never], no commands received from the remote user are allowed to pass the filtering process [negotiated value is Never, one or more peer ASCEs will not permit the taking of control and the ASCE cannot do so].

11. As to claim 28, Batty teaches [column 23, lines 1 – 20] if the shared window is in an execute mode [value is Always], all commands received from the remote user are allowed to pass the filtering process [negotiated value is Always, the taking of control is unmediated and the ASCE initiates the Core, Request Control, action to take control].

12. As to claim 29, Batty as modified teaches a pre-specified list of safe commands that are allowed to pass the filtering [service control file 42, Fig. 5; col. 7, line 52 – col. 8, line 9 of Susaki].

13. As to claim 30, Batty teaches [column 23, lines 1 – 20] the filtering mechanism is configured to allow the local user of the local computer system to approve the command [interacting with the local end-user to determine whether to allow the requesting ASCE to take control], and allow the command to pass the filtering process if the local user approves the command [when the negotiated value is Confirm, one or more peer ASCEs require that the taking of control requires confirmation by those peer ASCEs and the ASCE sends a Take Control Request MediatedControlPDU to all ASCEs...when the local value is Confirm, the ASCE utilizes a purely local mechanism, such as interacting with the local end-user, to determine whether to allow the requesting ASCE to take control]. As to a pre-specified list of safe commands, see claim 29 above.

14. As to claim 31, Batty teaches [column 34, lines 42 – 60] the display mechanism is configured to display commands from different users in different colors on the shared window [ColorTable Cache capability set provides capabilities for the colortable cache characteristics of the issuing ASCE...these capabilities are used to negotiate values used to construct Cache ColorTable orders in UpdatePDUs].

15. As to claim 32, Batty teaches [column 25, line 59 – column 26, line 13] the display mechanism is configured to send an update for the shared window from the local computer system [host window] to the remote computer system [shadow window], wherein the update includes the command [all updates to the host windows are reflected in both the shadow bitmap and the shadow window].

16. As to claim 33, Batty teaches [column 19, lines 1 – 25] the receiving mechanism is configured to receive a second command from a second remote user on a second remote computer system [in cooperating mode, cooperating ASCEs within the conference serially acquire the right to provide input to hosted and shadow windows].

17. As to claim 34, Batty teaches [column 18, line 56 – column 19, line 25] the filtering mechanism is located on at least one of: the remote computer system [ASCE that has a shadow window], the local computer system [ASCE that is hosting application], and a shared server that is separate from the remote computer system and the local computer system [AS protocol provides a set of core control mechanisms whereby ASCEs can implement a range of policies...AS protocol also defines an additional mediated set of control mechanisms, which build upon the core control mechanisms...the core AS control protocol is based on managing the right to provide input to hosted and/or shadow windows].

18. As to claim 35, Batty teaches the command is in the form of character input [AS, application sharing, output stream consists keyboard events; column 6, lines 30 – 45].

19. As to claim 36, Batty teaches the command is in the form of an action applied to a graphical user interface [AS, application sharing, output stream consists of interleaved keyboard and pointing device events; column 6, lines 30 – 45].

20. As to claims 1 – 12, these are method claims that correspond to apparatus claims 25 – 36; note the rejections to apparatus claims 25 – 36 above, which also meet these method claims.

21. As to claims 13 – 24, these are product claims that correspond to apparatus claims 25 – 36; note the rejections to apparatus claims 25 – 36 above, which also meet these product claims.

### ***Conclusion***

22. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Li B. Zhen whose telephone number is (571) 272-3768. The examiner can normally be reached on Mon - Fri, 8:30am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2126

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Li B. Zhen  
Examiner  
Art Unit 2126

lbz  
September 17, 2004

  
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